

FORM PTO-1449		Atty. Docket No.: C34.12-0058	Appl. No.: 10/644,650
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		First Named Inventor:	
		Timothy A. Skunes	
		Filing Date August 20, 2003	Group Art: 2874



U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
DR	4,250,520	2/10/81	Denlinger	357	68	
	AB	4,457,467	7/3/84	Klement et al.	228	103
	AC	4,708,429	11/24/87	Clark et al.	350	96.20
	AD	4,720,163	1/19/88	Goodwin et al.	350	96.20
	AE	4,750,799	6/14/88	Kawachi et al.	350	96.11
	AF	4,752,816	6/21/88	Sussman et al.	357	30
	AG	4,798,439	1/17/89	Preston	350	96.20
	AH	4,892,377	1/9/90	Randle	350	96.2
	AI	4,954,458	9/4/90	Reid	437	51
	AJ	4,989,934	2/5/91	Zavracky et al.	350	96.11
	AK	5,113,404	5/12/92	Gaebe et al.	372	36
	AL	5,123,074	6/16/92	Yokota et al.	385	95
	AM	5,177,807	1/5/93	Avelange et al.	385	91
	AN	5,210,811	5/11/93	Avelange et al.	385	91
	AO	5,216,729	6/1/93	Berger et al.	385	31
	AP	5,247,597	9/21/93	Blacha et al.	385	88
AS	AQ	5,249,733	10/5/93	Brady et al.	228	180.22

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
	AR						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AS	<i>Orn Raja</i>	DATE CONSIDERED: 4/14/05
EXAMINER:		

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449		Atty. Docket No.: C34.12-0058	Appl. No.: 10/644,650
<p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p> <p style="text-align: center;">JAN 29 2004 U.S. PATENT & TRADEMARK OFFICE</p>		First Named Inventor:	
		Timothy A. Skunes	
		Filing Date	Group Art:
		August 20, 2003	2874

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
OR	AT 5,283,446	2/1/94	Tanisawa	357	433	
	AU 5,450,508	9/12/95	Decusatis et al.	385	25	
	AV 5,478,778	12/26/95	Tanisawa	437	183	
	AW 5,499,312	3/12/96	Hahn et al.	385	91	
	AX 5,535,296	7/9/96	Uchida	385	89	
	AY 5,550,088	8/27/96	Dautartas et al.	437	225	
	AZ 5,555,333	9/10/96	Kato	385	89	
	BA 5,559,914	9/24/96	Asakura	385	49	
	BB 5,568,892	10/29/96	Basavanhally	228	180.22	
	BC 5,570,184	10/29/96	Armington et al.	356	375	
	BD 5,574,561	11/12/96	Boudreau et al.	356	399	
	BE 5,603,870	2/18/97	Roll et al.	264	1.25	
	BF 5,647,044	7/8/97	Basavanhally et al.	385	92	
	BG 5,659,641	8/19/97	DeMeritt et al.	385	14	
	BH 5,687,267	11/11/97	Uchida	385	89	
	BI 5,700,987	12/23/97	Basavanhally	219	56.1	
↓	BJ 5,721,797	2/24/98	Basavanhally et al.	385	49	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes	Translation No
	BK							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BL	
EXAMINER: <i>Ch. Roja</i>	DATE CONSIDERED: <i>4/19/05</i>

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August 20, 2003		2874	



U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
OR	5,745,624	4/28/98	Chan et al.	385	91	
	5,748,822	5/5/98	Miura et al.	385	90	
	5,748,827	5/5/98	Holl et al.	385	134	
	5,778,120	7/7/98	Asakura et al.	385	49	
	5,833,202	11/10/98	Wolfgang	248	466	
	5,854,867	12/29/98	Lee et al.	385	49	
	5,859,943	1/12/99	Asakura et al.	385	49	
	5,883,988	3/16/99	Yamamoto et al.	385	14	
	5,892,179	4/6/99	Rinne et al.	174	261	
	5,985,086	11/16/99	Peall	156	292	
	5,898,806	4/27/99	Nishimoto	385	49	
	5,907,649	5/25/99	Acklin et al.	385	49	
	5,916,458	6/29/99	Komoriya et al.	219	121.63	
	5,966,486	10/12/99	Boudreau et al.	385	90	
	5,970,200	10/19/99	Takikawa et al.	385	137	
	5,985,086	11/16/99	Peall	156	292	
✓	6,027,253	2/22/00	Ota et al.	385	83	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
	CD						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CE	
EXAMINER:	DATE CONSIDERED:

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August 20, 2003		2874	



U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
ON	CF 6,027,254	2/22/00	Yamada et al.	385	88	
	CG 6,058,234	5/2/00	Tachigori	385	49	
	CH 6,106,161	8/22/00	Basavanhally et al.	385	88	
	CI 6,112,001	8/29/00	Kishida et al.	385	49	
	CJ 6,115,515	9/5/00	Itoh et al.	385	14	
	CK 6,118,917	9/12/00	Lee et al.	385	49	
	CL 6,130,448	10/10/00	Bauer et al.	257	222	
	CM 6,132,106	10/17/00	Yokoyama	385	74	
	CN 6,157,050	12/5/00	Fukuoka	257	82	
	CO 6,160,936	12/12/00	You et al.	385	49	
▼	CP 6,164,837	12/26/00	Haake et al.	385	90	
CQ						
CR						
CS						
CT						
CU						
CV						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
~	CW	0 840 154 A1	5/6/98	EPO			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CX	<i>Dr. Roga</i>	DATE CONSIDERED: 4/14/05
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<p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p> <p style="text-align: center;">O P E JAN 29 2004 P A T E N T & T R A D E M A R K C O M M I S S I O N</p>		First Named Inventor:	
		Timothy A. Skunes	
		Filing Date	Group Art:
		August 20, 2003	2874

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
CY						
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FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
DN	DA	0 977 061 A2	2/2/00	EPO			X
	DB	2 779 536	12/10/99	France			X
	DC	54-12286	1/29/79	Japan			X
	DD	63-193113	8/10/88	Japan			(Abstract)
	DE	61-277908	12/8/96	Japan			(Abstract)
	DF	62-276890	12/1/87	Japan			(Abstract)
	DG	63-12187	1/19/88	Japan			(Abstract)
	DH	63-65411	3/24/88	Japan			(Abstract)
	DI	63-193113	8/10/88	Japan			(Abstract)
	DJ	63-228113	9/22/88	Japan			(Abstract)
	DK	1-302214	12/6/89	Japan			(Abstract)
	DL	6-34852	2/10/94	Japan			(Abstract)
	DM	6-174943	6/24/94	Japan			(Abstract)
	DN	6-201921	7/22/94	Japan			(Abstract)
	DO	6-331840	12/2/94	Japan			(Abstract)
UV	DP	7-333472	12/22/95	Japan			(Abstract)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DQ	
EXAMINER:	DATE CONSIDERED: 4/14/05

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<p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p> <p style="text-align: center;">U.S. PATENT DOCUMENTS</p> <p style="text-align: center;">O P F JAN 29 2004 P A T E N T & T R A D E M A R K O F F I C E</p>		First Named Inventor:	
		Timothy A. Skunes	
		Filing Date	Group Art:
		August 20, 2003	2874

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
DR						
DS						
DT						
DU						
DV						
DW						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
DR	DX	196 44 758 A1	4/30/98	Germany			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DR	DY	"Micro-Mechanical Alignment Structures (patent pending)", from Web Site of Axsun Technologies, 2 pages, downloaded 2/15/01.
DR	DZ	"An Innovative Flexible and Accurate Packaging Technique Suited to Fabricate Low Cost Micro Optoelectronic Modules", by M. Scussat et al., <u>Electronic Components and Technology Conference</u> , 2000, pgs. 26-32.
DR	EA	Article from Web Site entitled "The Photonics Program and the Engineering Research Division at LLNL are Automating the Packaging of Optoelectronic Devices to Lower Costs", 3 pages, downloaded 10/19/00.
DR	EB	Article from Web Site entitled "Automated Optoelectronic Packaging", 2 pages, downloaded 2/5/01.
DR	EC	Article from Web Site entitled 'Micro Assembly Automation", 3 pages., downloaded 2/5/01.

EXAMINER: John Raja DATE CONSIDERED: 4/19/05

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<p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p> <p style="text-align: center;">JAN 29 2004 JC42 PATENT & TRADEMARK OFFICE</p>		First Named Inventor:	
		Timothy A. Skunes	
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
EE	4,730,198	3/8/88	Brown et al.	350	96.20	
EF	4,790,618	12/13/88	Abe	350	96.15	
EG	4,817,849	4/4/89	Yamamoto et al.	228	103	
EH	4,845,052	7/4/89	Abend	437	209	
EI	4,909,590	3/20/90	Kamiko et al.	350	96.22	
EJ	5,093,879	3/3/92	Bregman et al.	385	93	
EK	5,170,455	12/8/92	Gooseen et al.	385	89	
EL	5,215,489	6/1/93	Nakamura	445	4	
EM	5,322,463	6/21/94	Young	445	4	
EN	5,371,822	12/6/94	Horwitz et al.	385	89	
EO	5,625,733	4/29/97	Frigo et al.	385	88	
EP	5,659,641	8/19/97	DeMeritt et al.	385	14	
EQ	5,737,467	4/7/98	Kato et al.	385	92	
ER	5,916,458	6/29/99	Komoriya et al.	219	121.63	
ES	6,010,251	1/4/00	Koyanagi et al.	385	93	
ET	5,644,668	7/1/97	Chambers et al.	385	90	
EU	5,671,315	9/23/97	Tabuchi et al.	385	137	
EV	5,700,987	12/23/97	Basavanhally	219	56.1	
EW	6,106,161	8/22/00	Basavanhally et al.	385	88	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
EX						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER: *Or Roja* DATE CONSIDERED: *9/14/05*

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
EN	6,222,579	4/24/01	Sousa	347	241	
	6,327,407	12/4/01	Mitsuda et al.	385	49	
	2001/0010743	8/2/01	Cayrefoureq et al.	385	88	
	6,074,103	6/13/00	Hargreaves et al.	385	90	
	6,148,511	11/21/00	Taguchi	29	834	
	5,894,657	4/20/99	Kanayama et al.	29	740	
	4,854,667	8/8/89	Ebata et al.	350	96.20	
	5,383,118	1/17/95	Nguyen	364	167.01	
	5,677,973	10/14/97	Yuhara et al.	385	90	
	4,752,109	6/21/88	Gordon et al.	350	96.20	
	4,807,956	2/28/89	Tournereau et al.	350	96.20	
	5,416,872	5/16/95	Sizer, II et al.	385	92	
	5,435,734	7/25/95	Chow	439	69	
	5,872,880	2/16/99	Maynard	385	88	
	6,186,674	2/13/01	Basavanhally	385	88	
	6,318,906	11/20/01	Ishizaka	385	88	
	6,392,778	5/21/02	Perduijn et al.	359	245	
	6,396,854	5/28/02	Takagi	372	20	
	5,093,984	3/10/92	Lape	29	741	
U	5,977,567	11/2/99	Verdiell	257	99	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
	FT						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

FU

EXAMINER:

Chris Roja

DATE CONSIDERED:

4/14/05

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<p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p> <p style="text-align: center;">O P T E JAN 29 2004 S C A S U. S. PATENT DOCUMENTS</p>		First Named Inventor:	
		Timothy A. Skunes	
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		August 20, 2003	2874

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
DR	GA 5,023,881	6/11/91	Ackerman et al.	372	46	/
✓	GB 5,906,753	5/25/99	Aoyagi et al.	216	24	
GC	6,467,972	10/22/02	Setoguchi	385	88	
GD	6,470,120	10/22/02	Green et al.	385	52	
GE						
GF						
GG						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
DR	GH	0 600 645 A1	6/8/94	EPO			X
DR	GI	0 903 600 A1	3/24/99	EPO			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DR	GJ	"Notification of Transmittal of the International Search Report or Declaration" PCT/US02/05412.
✓	GK	"Notification of Transmittal of the International Search Report or Declaration" PCT/US02/05268.
✓	GL	"Notification of Transmittal of the International Search Report or Declaration" PCT/US02/05497.
✓	GM	"Notification of Transmittal of the International Search Report or Declaration" PCT/US02/05498.
✓	GN	"3.5 Gb/s x 4 ch Optical Interconnection Module for ATM Switching System" by N. Tanaka et al., <u>Electronic Components and Technology Conference</u> , pgs. 210-216, 1997.
✓	GO	"Advanced Flip Chip Bonding Techniques Using Transferred Microsolder Bumps", by N. Koshoubu et al., <u>Electronic Components and Technology Conference</u> , pgs. 272-277, 1999.
✓	GP	"Hybrid Integrated 4x4 Optical Matrix Switch Using Self-Aligned Semiconductor Optical Amplifier Gate Arrays and Silica Planar Lightwave Circuit", <u>Electronics Letters</u> , Vol. 34, No. 10, pgs. 986-987, May 14, 1998.
✓	GQ	

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• Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
DR	3,407,018	10/68	J.V. Miller	350	321	
	6,320,705	11/01	Dube'	359	796	
GT	US2003/0037141	03/02	Miyamoto et al.			
GU	4,180,307	12/1979	Tateoka et al.	350	6.5	
GV	2002/0037141	3/2002	Miyamoto et al.	385	88	
GW	4,989,940	2/1991	Wollenweber et al.	350	96.18	
GX	5,351,330	9/1994	Jongweارد	385	93	
GY	5,570,444	10/1996	Janssen et al.	385	90	
GZ	5,619,609	4/1997	Pan et al.	385	136	
HA	6,087,621	7/2000	Kang et al.	219	121.64	
HB	6,174,092	1/2001	Siala	385	91	
HC	6,184,987	2/2001	Jang et al.	356	388	

FOREIGN PATENT DOCUMENTS

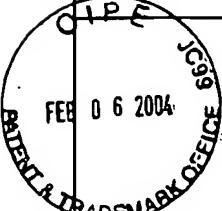
		Document No.	Date	Country	Class	Sub Class	Translation Yes No
DR	HD	1 008 877 A2	6/14/00	EPO			X
	HE	1 014 125 A2	6/28/00	EPO			X
	HF	0 821 218 A2	1/28/98	EPO			X
	HG	0 903 608 A2	3/24/99	EPO			X
DR	HH	0 921 702 A2	6/9/99	EPO			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

HI	Search Report PCT/US03/12252.
DR	"Notification of Transmittal of the International Search Report or the Declaration" PCT/US03/12252.
HK	
HL	

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U.S. PATENT DOCUMENTS

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ON	AA 3,800,388	4/1974	Borner et al.	29	200	
ON	AB 5,195,707	3/1993	Ignatuk et al.	248	179	
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

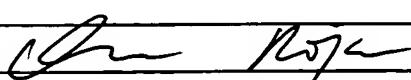
FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
ON	AL	0 325 431	7/1989	EPO			X
ON	AM	23 58 785	6/1975	Germany			X
	AN						

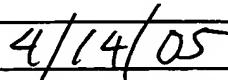
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

ON	AO	"Novel Fiber Alignment Method Using a Partially Metal-Coated Fiber in a Silicon V-Groove", by S. Kaneko et al., <u>IEEE PHOTONICS TECHNOLOGY LETTERS</u> , Vol 12, No. 6, June 2000, pgs. 645-647.
ON	AP	"Notification of Transmittal of the International Search Report or the Declaration" PCT/US03/26006.
	AQ	

EXAMINER:



DATE CONSIDERED:



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U.S. PATENT DOCUMENTS

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DR	AA 5,296,072	03/22/94	Dannoux et al.	156	257	11/05/1992
	AB 4,737,845	04/12/88	Susuki et al.	358	101	08/15/1986
	AC 4,979,970	12/25/90	Dannoux et al.	65	2	02/12/1990
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DR	AR	EP 0544024 A1	06-1993	Europe			
DR	AS	EP 0907092 A1	04-1999	Europe			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AT	DR	DATE CONSIDERED: 4/14/05
EXAMINER:		

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449		Atty. Docket No.: C34.12-0058	Appl. No.: 10/644,650
<p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p> <p><i>O I P E</i> AUG 23 2004 PATENT & TRADEMARK OFFICE EGCS</p>		First Named Inventor:	
		Timothy A. Skunes	
		Filing Date August 20, 2003	Group Art: 2874

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
JK	AA 2002/0037142	3/2002	Rossi	385	92	
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JK AT "Written Opinion" from PCT/US03/26006
 EXAMINER: *JK Raja* DATE CONSIDERED: 4/14/05

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449		Atty. Docket No.: C34.12-0058	Appl. No.: 10/644,650
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		First Named Inventor:	
		Timothy A. Skunes	
		Filing Date	Group Art:
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FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AS	<i>DR</i>	DATE CONSIDERED: 4/14/05
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.